Memorandum

Subject: Woodford County

CAFO - Facility Inspection IDOA Facility ID #LF2030080000 Old Prairie Pork Swine Finishing Facility Lone Willow USA, Inc.

DWPC/FOS and RU

From: Todd R. Huson, DWPC-FOS, Peoria Region

Date: May 31, 2011

Accompanied: Star Fowler, DWPC-FOS, Peoria Region

telephone number are **Exemption 6 and Exemption 7(C)**Randy Leman was interviewed and accompanied us during this inspection. The weather was partly (Old Prairie Pork) swine finishing facility. This facility is located along County Road 1600N in Metamora Township, Woodford County (NE 1/4, Sect 12, T27N, R2E). The mailing address and On May 31, 2011 a CAFO facility inspection was performed at the Lone Willow USA, Inc

cloudy and warm with strong winds from the west by southwest.

General Information

the two remote finishing facilities through New Horizon Pork. finishing facilities (buildings) through Triple L Pork (swine management company). certified livestock manager. The facility has four full-time and one part-time employees. They own facility and a local sow operation. The AI facility was shut down and the sow operation was converted into a finishing facility. Lone Willow USA, Inc. is owned by Bruce, Randy, and Chris This finishing facility was initially operated in conjunction with an artificial insemination They currently operate this facility, an 850-head SPF unit, and two remote 2,400-head Randy is

Chris Leman Randy Leman Bruce Leman

Owner/Operator Owner/Operator

John Leman Jarrod Lema Clark Leman Employee Employee

Swine Finishing Operation

swine are finished from ~12# to ~270#. The facility reportedly produced ~24,000 swine annually. Swine not used as replacement gilts are typically taken to Cargill's pork slaughterhouse in number is (618) 594-2125. Weaned pigs are obtained from sow facilities in southern Illinois. These Beardstown, Illinois. Maschhoffs office is located at 7475 State Route 127, Carlyle, Illinois 62231 and the telephone for herds in Missouri, Ohio, and Iowa. All swine are owned by The Maschhoffs, Inc. populated in 2002. The facility was converted into a contract finishing facility for replacement gilts This 12,000 head swine finishing facility (IDOA ID# LF2030080000) was constructed and

Swine Finishing Facility - Specific Building Information

facility. An aggregate access road was provided to each building. generator, and water treatment facilities. The main office and laboratory are located at the former AI The facility consists of six total confinement buildings with 8' deep pits and a utility The utility building contains a small office, garage, maintenance area, emergency

propane heaters. The propane tank is located at the northeast corner of the facility. and are operated all year. Each building has end curtains and ridge and eve vents. Fresh air enters the buildings through the vents and is exhausted through the wall and pit fans. Heat is provided by the winter months. The 20-inch, variable speed, pit fans are activated by thermostats and humidistats all year. The 48-inch fans are used primarily during warm weather and sealed with fabric covers in 36-inch fans). The ventilation fans are activated through thermostats. The 36-inch fans are operated finishing rooms. Each building has 6 pit fans and 12 wall ventilation fans (ten 48-inch fans and two Each ~265' long and ~63' wide total confinement building is separated into two swine

Water Supply - Electrical Power (Emergency Generator)

provides landscaping and exterior wash water. pumped to the AI facility and two homes. The third well located in the field west of the facility building provide potable water, water for the swine, and interior cleaning water. This water is also Water is provided by three 200-deep on-site wells. The two wells located near the utility

generator is exercised weekly and will provide sufficient power for the entire site. panels are located in the utility building. The generator and transfer switch are operational. The service has been reliable. A 200 KW emergency generator, transfer switch, and related control Electrical power is provided Direct Energy through Ameren/Cilco distribution lines.

Perimeter Drain Tiles

the discharge appeared clear. corresponding reports are submitted to IDOA. No problems were reported. During this inspection by PDC Laboratories, 2231 West Altorfer Drive, Peoria, Illinois 61615, (309) 692-9688. The access for sampling. Randy obtains quarterly samples from each line. These samples are analyzed lake. Each discharge line serves three buildings. Two risers were placed along each line to provide 506.304 of Title 35. These four-inch tiles discharge through two six-inch lines into the storm water Perimeter drain tiles were installed around the foundation of each building pit, as per Section

Storm Water

from the perimeter drain tiles is diverted to the storm water lake located south of the facility. This lake is ~25' deep and has been stocked with fish. No runoff problems were reported The structures do not have gutters or downspouts. Storm water runoff and groundwater

Feed Rations - Watering

corn and soybean meal with a few additives such as lime, synthetic lysine (amino acid), and distillers watering system in the buildings. These units reportedly conserve water and reduce spillage The diet is determined by Lone Willow operates a feed mill at the former AI facility. Feed rations consist primarily of The Maschhoffs. Livestock are watered through hanging nipple

Wastewater Storage/Treatment

pits as seed following disposal operations. The pits currently contain ~5' of wastewater. ports. Each pit has a design capacity of \sim 0.94 MG. The combined capacity of all pits is \sim 5.6 MG. However, the depth normally ranges from 1.5' to 6'. A minimum depth of \sim 1.5' is maintained in the operating depth of 7.5'. The pits were divided into two sections by center walls with 6 equalization The six confinement building pits are 265' long, 63' wide, and 8' deep with a maximum

not successful and were abandoned. The solids separators and filters are still on-site. remove solids through two solids separators, three cartridge filters, and polymer feed equipment were valves are closed and the pits are currently operated independently. Also, previous attempts to mixing and to prevent excessive solids settling. However, this practice has been discontinued. The pump in a 5' diameter RPC wet well). Wastewater was distributed and collected with two 12-hole 4" PVC manifolds at the ends of the pits. Wastewater was recycled through the pits to promote The pits were previously connected by 6" PVC sewer system with a lift station (submersible

Wastewater Disposal

placed in a pump-out port at one end of the pit and a PTO driven DODA portable pump is place in a flexible hose to an above ground transfer tank, semi-tank truck, or application vehicle pump-out port at the other end. After the wastewater is sufficiently mixed, it is pumped through a Wastewater is removed from each pit is separately. A PTO driven V6 Balzer agitator is

overflow line that drains to the northwest building pit. A drain was also placed in the concrete slab beneath the tank. Any spillage during loading also drains to the northwest building pit. trucks. The elevated tank has significantly improved truck loading operations. This tank has an northwest confinement building. Wastewater is pumped into this tank then transferred to semi-tank The \sim 10,000 gallon elevated transfer tank was installed on a steel frame just west of the

owns the application wagon. The wagon is pulled by Joe Backman's front wheel assist tractor hydraulic transfer pump. Joe Backman and Dave Obery each own one truck and Lone Willow USA Balzer application wagon with five injection knives and injected into the soil. The wagon has a to the fields. Each truck has ~6,000 gallons capacity. Wastewater is then pumped into a 6,500-gal pumped from the pits into the elevated tank then transferred to the two semi-tank trucks and hauled Obery. They reportedly have \sim 5,000 acres within six miles of the facility. Wastewater is normally This wastewater is applied to cropland owned by local farmers Joe Backman and Dave

3.5 MG each year wastewater. Randy monitors application rates and obtains samples. This facility typically applies 4,000-gal/acre). The fields are rotated each year. Joe Backman or Clark Leman normally apply the wheat field once in the summer. Wastewater is applied to corn and bean fields in the fall. Wastewater was also applied to a The wastewater is applied with GPS controls (typically around

Dead Swine Disposal

converted to replacement gilt production. facilities. The mortality rate at this facility has been reduced from 3-4% to 2-3%, since the facility that some additional cover will reportedly be added. The compost is used as fertilizer at the swine been satisfactory. During this inspection a few bones and carcasses were exposed. Randy indicated are turned two to three times prior to disposal. The decomposition of the dead pigs has reportedly straw, and leaves (from the township) is stored on a concrete pad between the buildings. The piles former AI facility (~1/4 miles east of the finishing units). The carbon source consisting of sawdust, old Dead swine are removed from the site and composted in a two open front sheds located at the

Odor Control Measures - Observations

facility attempted to control odors by pumping ozone into the pits and rooms above the pits. This to collect dust in cold weather. Also, all fans are cleaned every time a room floors are cleaned. The the OSHA and FDA 0.05-ppm limit for indoor environments. practice did not produce the desired results and was suspended. The ozone concentrations exceeded ventilation and pit fans during warm weather. The pine trees were planted just outside the aus trees control measure. Aus and pine trees were planted along the east and west perimeter of the farm as an odor These trees reportedly collect a significant amount of dust from the building

downwind of the buildings. recently. During this inspection, an obvious swine and swine waste odor was noted immediately placed in operation. However, the Agency and the facility have not received any odor complaints The Peoria Regional Office received numerous odor complaints when the facility was

Wastewater & Soils Test

results are reportedly used to determine the actual application rates. performed by Agri-Management Solutions, Inc., 14401 South 700 West, Wanatah, Indiana 46390, three composite samples are sent to Midwest Laboratories, 13611 B Street, Omaha, Nebraska 68144, (402) 334-7770 for analysis. The manure value is based on these tests results. each building pit. The samples from two pits are combined to form one composite sample. These (219) 204-0402. Soil samples are obtained from a grid on 3-year cycle. Randy obtains wastewater samples during each application. Randy collects ~6 samples from Wastewater and soil test Soil tests are

CNMP

Harker Drive, Peoria Illinois 61615, (309) 6923-7615. A CNMP was developed for this facility by Terry Feldman of Maurer-Stutz, Inc., 7615 N.

CAFO Designation

discharge. Therefore, an NDPES permit is not required at this time. defined by the clean water act. The facility has not had a manure release and is not designed to This 12,000-head swine finishing facility is a large confined animal feeding operation, as

East Contract Finish Facility – Two Remote Finishing Facilities

two remote 2,400-head finishing facilities is stored in deep pits and ultimately spread on local disposal of this wastewater was reportedly incorporated in the CNMP. Wastewater generated at the as an 850-head finishing unit. The nursery unit is not utilized. Wastewater generated in this cropland next to these facilities. finishing building is disposed in conjunction with the wastewater from the 12,000-head facility. The into a contract finishing facility. The large confinement building with 8' deep pit at this site is used The sow facility located $\sim 3 \frac{1}{2}$ miles east of the 12,000-head finishing facility was converted

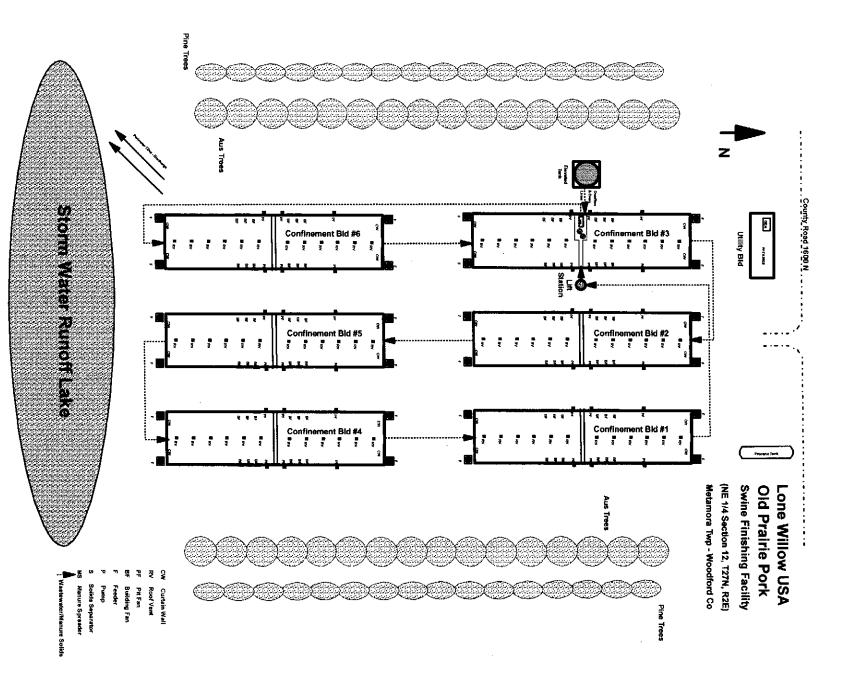
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Todd R Huson

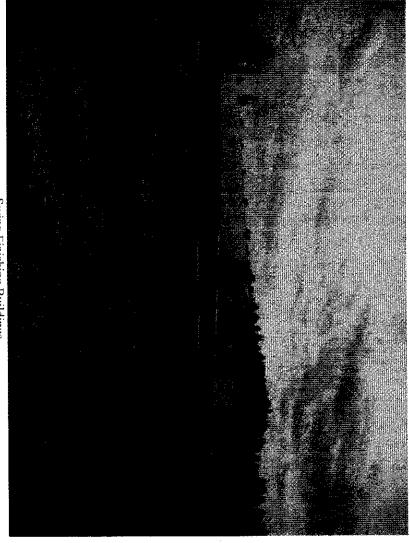
Att: Site Diagrams

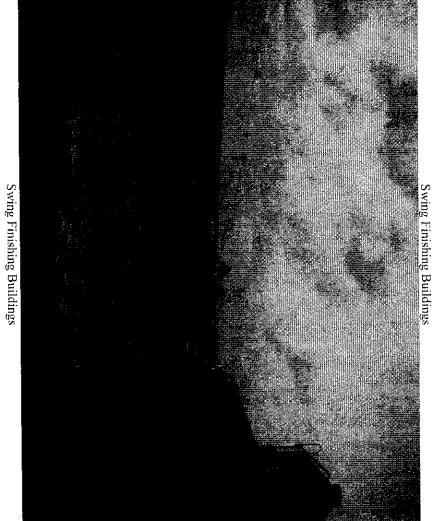
Photographs

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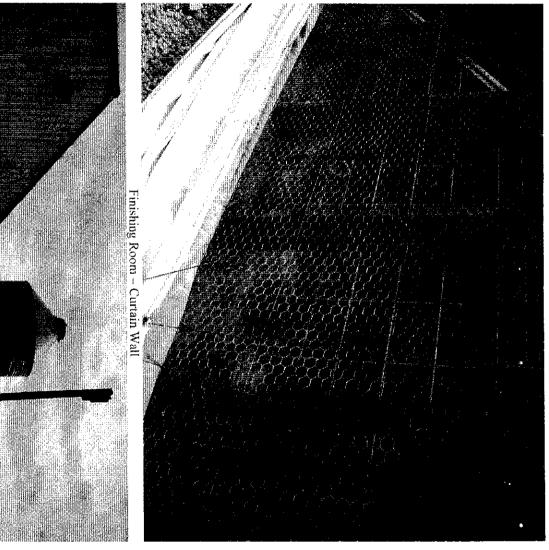


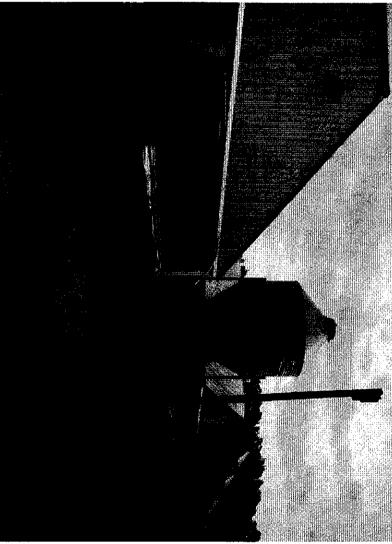
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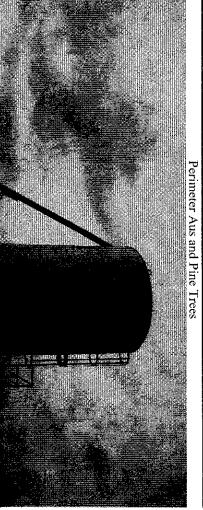
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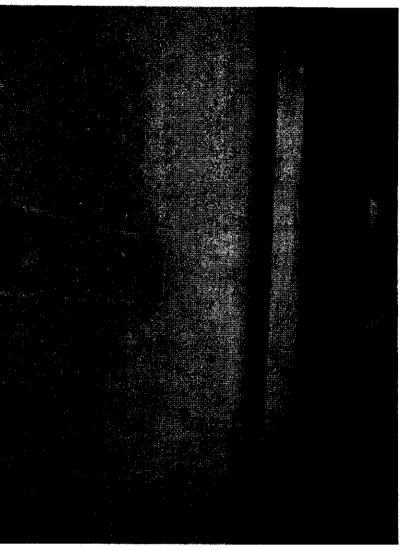
Swing Finishing Buildings - Feeders and Curtain Walls







Above-Ground Wastewater Transfer Tank



Above-Ground Wastewater Transfer Tank – Drain to Building Pit

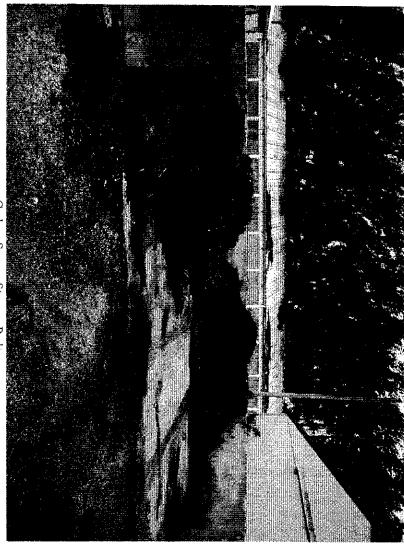


Perimeter Tile Discharges to Storm Water Lake





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Carbon Source Storage Pad



Open Front Compost Shed